

**IN THE ABSTRACT:**

The Abstract as amended below with a replacement Abstract shows added text with underlining and deleted text with ~~strikethrough~~.

An ~~injectionejection~~ controlling device for an inkjet printer and a controlling method thereof includes determining whether an ink cartridge is installed in the inkjet printer, printing patterns in order by driving an ink ~~injectionejection~~ heater with an array of predetermined pulses with widths that vary in sequential order in response to the ink cartridge being connected to the inkjet printer, detecting printing densities of the printed patterns; determining the pattern with an optimal density among the printing densities, and storing the width of the pulse corresponding to the pattern with the optimal density as an optimal pulse width.